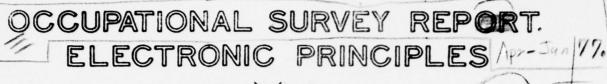


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TELEPHONE EQUIPMENT INSTALLER SPECIALIST

AFSC 36254 .

AFPT-90-362-222 15 September 1977

OCCUPATIONAL SURVEY BRANCH
USAF OCCUPATIONAL MEASUREMENT CENTER
LACKLAND AFB TEXAS 78236

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#### TABLE OF CONTENTS

	PAGE NUMBER
PREFACE	2
INTRODUCTION	3
DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)	3
ADMINISTRATION	3
PRESENTATION OF RESULTS	6
APPENDIX	7

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#### **PREFACE**

This report presents a summary of the results of a detailed Air Force Electronic Principles Survey of the Telephone Equipment Installer Specialist, AFSC 36254.

The Electronic Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey data were analyzed by Captain Frederick B. Bower, Jr. All are members of the Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Distribution of this report is made upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

JAMES A. TURNER, JR., Colonel, USAF Commander USAF Occupational Measurement Center

WALTER E. DRISKILL, Ph.D. Chief, Occupational Survey Branch USAF Occupational Measurement Center

#### ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT TELEPHONE EQUIPMENT INSTALLATION SPECIALIST AFSC 36254

#### INTRODUCTION

VThis report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned as Telephone Equipment Installer Specialist (AFSC 36254). The data for this report were collected during the period April through June 1977.

This report describes: (1) development and administration of the survey instrument; and (2) electronic principles used by DAFSC 5-skill level personnel both CONUS and overseas and assigned to selected major commands.

#### DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)

The EPI was developed by personnel from the Occupational Survey Branch who were well qualified in theoretical physics and electronics, as well as in task analysis and survey development. Over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFCS participated in the development of the inventory. Representing the five ATC training centers, electronics experts who averaged 12 years of maintenance experience and four years of electronic principles instruction experience spent several weeks refining the EPI. In addition, personnel at the Electrical Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory were consulted during the development of the inventory.

The final version of the EPI used in this survey contained 1,257 items in 62 subject matter areas covering all electronic principles training given at the five ATC technical training centers. Table 1 lists the 62 subject areas.

#### ADMINISTRATION

The Electronic Principles Inventory was administered by mail to AFSC 36254 airmen worldwide. Responses from 108 individuals represented 15 percent of the total of all AFSC 36254 personnel. Table 2 shows the percentage distribution by major command of the survey incumbents.

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TABLE 1
EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER	GPSUM PAGE NUMBER
1	MATHEMATICS	Al	2
2	DIRECT CURRENT AND VOLTAGE		2 2 2
3	RESISTANCE	A24	2
4	MILL TIMETED LICEC	B52	3
5	ALTERNATING CURRENT	B61	4
6	ALTERNATING CURRENT INDUCTORS AND INDUCTIVE REACTANCE	B67	4
7	CAPACITORS AND CAPACITIVE REACTANCE	C92	
8	TRANSFORMERS	C120	5 6
9	MAGNETISM	C128	
10	RCL CIRCUITS	C171 D185	7 8
11			8
- 11	SERIES AND PARALLEL RESONANCE (TIME CONSTANTS)	D229	10
12	FILTERS	D239	10
13	COUPLING	E261	11
14	SOLDERING .	F273	ii
15	RELAYS	E295	12
16	MICROPHONES	F314	12
17	SPEAKERS	F327	13
18	OSCILLOSCOPES	F342	13
19	RELAYS MICROPHONES SPEAKERS OSCILLOSCOPES SEMICONDUCTOR DIODES TRANSISTORS	G354	13
20	TRANSISTORS	G404	15
21	TRANSISTOR AMPLIFIERS	G428	16
22	SOLID-STATE SPECIAL PURPOSE		
	DEVICES	H477	19
23	POWER SUPPLIES	H483	19
24	OSCILLATORS	H512	19
25	MULTIVIBRATORS	1539	20
26	LIMITERS AND CLAMPERS ELECTRON TUBES	1555	21
27	ELECTRON TUBES	1565	21
28	ELECTRON TUBE AMPLIFIERS AND CIRCUITS	J609	22
29	SPECIAL PURPOSE ELECTRON	J616	
20	TUBES	1620	23
30	HETERODYNING, MODULATION, AND DEMODULATION	J632	23
31	AM SYSTEMS	K638	23
32	FM SYSTEMS	K666	24

#### TABLE 1 (CONTINUED) EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER	GPSUM PAGE NUMBER
33	NUMBERING SYSTEMS LOGIC FUNCTIONS BOOLEAN EQUATIONS COUNTERS	K685	25
34	LOGIC FUNCTIONS	L695	25
35	BOOLEAN EQUATIONS	L708	26
36		L733	27
37	TIMING CIRCUITS	M757	27
38	USE OF SIGNAL GENERATORS	M769	28
39	MOTORS AND GENERATORS	M779	28
40	METER MOVEMENTS	N808	29
41	SATURABLE REACTORS AND	N818	
	MAGNETIC AMPLIFIERS		29
42	WAVESHAPING CIRCUITS	N834	30
43	SINGLE SIDEBAND SYSTEMS	0845	30
44	PULSE MODULATION SYSTEMS	0875	31
45	ANTENNAS	0914	32
46	TRANSMISSION LINES	P953	34
47	WAVEGUIDES AND CAVITY RESONATORS	P984	25
48	MICROWAVE AMPLIFIERS AND	P1034	35
40	OSCILLATORS	P1034	37
49	REGISTERS	Q1110	39
50	STORAGE DEVICES	Q1117	40
51	DIGITAL TO ANALOG CONVERTERS	Q1126	40
52	PHANTASTRONS	Q1140	41
53	PHANTASTRONS SCHMITT TRIGGERS CABLE FABRICATION	R1141	41
54	CABLE FABRICATION	R1144	41
55	INPUT/OUTPUT DEVICES	S1146	41
56	PHOTO SENSITIVE DEVICES	S1149	41
57	SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS)	S1150	41
58	INFRARED	T1159	41
59	LASERS	T1186	42
60	DISPLAY TUBES	T1220	43
61	PROGRAMMING	U1234	43
62	DB AND POWER RATIOS	U1255	44

TABLE 2

COMMAND REPRESENTATION OF SURVEY SAMPLE

	36	5254
COMMAND	PERCENT ASSIGNED	PERCENT OF SAMPLE
ADC	1	4
ATC	1	1
AFCS	97	82
OTHER	_1	
TOTAL	100	100

Total Assigned - 702 Total Sampled - 108 Percent Sampled - 15\*\*

\*NOTE: Only a 40 percent sampling of this career specialty had been ordered. Of the booklets distributed only 53 percent were returned resulting in the low percent sampled figure.

#### PRESENTATON OF RESULTS

Personnel responded "yes" or "no" to the 1,257 electronic principles questions as related to their present job. A Group Summary (GPSUM) computer printout is provided in the Appendix portion of this report. Page 1 of the GPSUM lists the four selected groups identified for this report. Pages 2-44 show the percentage of the incumbents responding to the EPI items. The computer program results display the percent members answering "yes" to the subject area questions. The reader can locate a specific subject area by referring to the Appendix page number as listed in Table 1. For example, the Transformers area results are given on page 6 of the GPSUM. The percentage of survey respondents indicating use of specific electronic principles ranged from high in areas such as Soldering (pp. 11-12) and Relays (p. 12) to low in areas such as Limiters and Clampers (p. 21) and Lasers (pp. 42-43). Additional AFSC 362X4 data can be obtained upon request to the Chief, Occupational Survey Branch (OMY).

APPENDIX

PCT MBMS RESPONDING .YES' BY SELECTED GRPS

TABULATION OF ELECTRONIC PRINCIPLES UTILIZATION DATA FOR SELECTED GROUPS IN THE 362K4 CAREER FIELD.

REPORTS ON THE FULLOWING GROUPS WERE REQUESTED

CONTAINING	CONTAINING	CONTAINING	CONTAINING
	STATIONED IN CONUS	STATIONED OVERSEAS	ASSIGNED TO AFCS
34254	36254		
DAFSC	DAFSC	DAFSC	DAFSC
AIRMEN	A I RMEN	AIRMEN	AIRMEN
ALL	ALL	ALL	ALL
SPC076	SPC077	SPC078	SPC079
•	•	•	•
DENTITY	IDENTITY	DENTITY	DENTITY
	GROOP		

BANENBERS. BANENBERS. 25 NEMBERS. 89 NEMBERS.

### TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

				MATHEMATICS											DIRECT CURRENT AND VOLTAGE											RESISTANCE			
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DYTISK	A 1 A1-OI IN YOUR PRESENT JOB, DO YOU USE INSTRUMENTS, SUCH AS METERS OR OSCILLOSCOPES, IN WHICH IT IS NECESSARY TO AMPLIFY OR ATTENUATE VOLTAGE, RESISTANCE, ETC., BY POWERS OF IO.		DO YOU REARRANGE	41-04 00 70U CALCULAT	TOP DO YOU CONVERT NUMBERS TO LOGARITHES.	A ALEGY DO TOU OSE LOGARITHM TABLES IN ANY TIME OF	8 A1-08 DO YOU SOLVE QU	A 1-09 DO YOU USE THE	00 40 11 10 00 40 1	SINE, COSINE	A 12 AI-13 DO YOU DETENTINE ANEXO OF PLANE FIGURES.	14 A1-14 DO YOU SOLVE OR	IS AZ-01 DO TOU USE THE TERM	000	18 42-04 DO YOU USE THE TERM	19 A2-05 DO YOU USE THE TERM	A 20 A2-06 DO YOU USE THE TERM AMPERE.	A2-06 DO YOU USE THE TERM	23 A2-09 DO TOU USE THE	24 A3-01 DO YOU WORK WIT	25 A3-02 DO TOU INSPECT	A3-04 00 YOU	28 A3-05 DO TOU	43-06 DO YOU	43-07 DO 700 U	A 31 A3-08 DO YOU USE ON REFER TO RESISTOR SYMBOLS SUCH AS FIXED	HBOLS OR IDENTIFY	X LIN	POTENTIONETER. A 33 A3-10 DO TOU USE RESISTOR COLOR CODES WHICH INDICATE OHHIC VALUE OF RESISTANCE.

### TASK GROUP SUNNARY PERCENT MEMBERS PERFORMING

A 34 43-11 DO TOU USE RESISTOR COLOR CODES ANICH INDICATE  A 35-12 DO TOU USE RESISTOR COLOR CODES ANICH INDICATE  A 36-13 DO TOU USE RESISTOR COLOR CODES ANICH INDICATE  A 36-13 DO TOU USE RESISTOR COLOR CODES ANICH INDICATE  A 37-13 DO TOU USE RESISTOR COLOR CODES ANICH INDICATE  A 37-13 DO TOU USE RESISTOR COLOR CODES ANICH INDICATE  A 37-14 DO TOU USE RESISTOR COLOR CODES ANICH STATEMENT OF THE STATEMENT OF	5PC 079	28	1,1	0 #	52	33	30	29	21	22	21	21	21	1.	21	20	20	6-1	21	6.5	~	75 MILL TIMETED JISES	MULITALIEN OSES	17.0		9.1	
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## TASK GROUP SUMMANY PERCENT HEMBERS PERFORMING

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SPC 077	-	6	00	22	S	7		- 3	-	11	12	1	1	4	٧ -		,		8	7		Ŧ	~	~	^		~	S				~ 5	٠
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NY - TSX	8 61 82-01 DO YOU USE ON REFER TO THE TERM EFFECTIVE VOLTAGE (RMS).	62 82-02 DO YOU USE OR	82-04 DO YOU USE OR RESERVED TO THE TERM	65 82-05 DO YOU USE OR REFER TO THE TERM	66 82-06 DO YOU	67 83-51 DO YOU WORK WITH INDUCTORS OR CIRCUITS CONTAI	INDUCTORS, C	20 20-18 89	A3-04 DO YOU ANJUST INDUC	71 83-05 DO YOU REHOVE OR RE	72 83-06 00 YOU USE OR REFER	73 83-37 DO YOU USE OR REFER TO	74 83-08 DO 100 USE ON REFER TO	75 83-09 00 100 USE ON REFER TO	76 83-10 00 100 USE OR	מו שמשומש אני שלה מו מו מו מו שני של או	INDUCTANCE IS PROPORTIONAL T	TURNS OF THE COIL.		B BU BULL DO YOU USE OR REFER TO THE GENERAL RULE THAT THE	-	EFER 15	HEAMERABILITY OF THE COME MATERIAL. H 82 83-16 DO TOU CALCULATE INDUCTANCE FOR PARTICULAR INDUCTORS	BY BALLY DO YOU CALCULATE THE	SERIES.	IN PARALLEL.	B 85 83-19 DO TOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS	B 86 B3-20 DO TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT		DO YOU USE ON REFER TO THE GENERAL RULE	INDUCTIVE REACTANCE IS DIRECTLY	89 83-23 00 YOU MORK WITH	BA-25 DO TOU MORK WITH RADIO

## TASK GROUP SUNNARY PERCENT MEMBERS PERFORMING

			CAPACITORS AND CAPACITIVE REACTANCE																														
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DY-15K	92 CI=01 DO YOU WORK WITH CAPACITORS OR CIRCUITS CONTAINING CAPACITORS IN YOUR PRESENT JOB.	- 4	C1-04 DO YOU ADJUST	C1-05 DO YOU TEST CA	DO YOU DISCHARGE	בורכו מס ומס שביותוני	99 CI=UB DO TOU USE OR REFER TO DISTRIBUTED CAFACITANCE. 100 CI=OP DO TOU USE OR REFER TO ORBITAL STRESS OF ELECTRONS IN	A DIELECTRIC.	101 CI-10 DO YOU USE OR REFER TO FARADS, MICROFARAUS, OR	PICOFARADS.	102 CI-II DO YOU USE OR REFER TO CAPACITANCE.	CI-13 DO YOU USE OR REFER	CAPACITORS	C1-14 DO YOU USE OR	C1-15 DO YOU USE OR	CI-16 DO YOU WORK WITH CAPACITORS IN	CI-17 DO YOU WORK WITH CAPACITORS IN	TO CITE TO TO TO TO THE WITH CAPACITORS IN CIRCUITS WITH BUTH DC		111 C1-20 DO YOU CALCULATE CAPACITANCE FOR PARTICULAR	CAPACITORS USING FO	112 CI-21 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITANCE OF A CAPACITOR IS DIRECTLY PROPORTIONAL TO THE	113 CI=22 DO TOU USE OR REFER TO THE GENERAL RULE THAT	CAMESS	114 C1-23 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS	115 CI-29 DO TOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS	IN PARALLEL ILS CI-25 DO FOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS	IN SERIES-PARALLEL CIRCUITS	117 CI=26 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT CARACITORS, IT ONLY APPEARS TO DO SO	PEFER TO THE GENERAL RULE THAT	LEADS VOLTAGE IN AC CAPACITON CINCUITS 119 CI-28 DO YOU USE ON REFER TO THE GENERAL RULE THAT CI-28 DO YOU USE ON REFER TO THE GENERAL RULE THAT	FREQUENCY	120 CI-27 DO TOU CALCULATE CAPACITIVE MEACTANCE

### TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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DY-15K	C 121 C1-30 DO YOU WORK WITH ROTOR-STATOR (VARIABLE) CAPACITORS C 122 C1-31 DO YOU WORK WITH COMPRESSION (FRIMMER) CAPACITORS C 123 C1-32 DO YOU WORK WITH ELECTROLYTIC (FIXED) CAPACITORS C 124 C1-33 DO YOU WORK WITH PAPER (FIXED) CAPACITORS C 125 C1-34 DO YOU WORK WITH HICA (FIXED) CAPACITORS C 126 C1-35 DO YOU WORK WITH CRAMIC (FIXED) CAPACITORS C 127 C1-36 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF CAPACITORS		137 (22-10 DO YOU REFER TO O TO WHEN MORING WITH TRANS 138 (22-11 DO YOU CALCULATE 139 (22-12 DO YOU REFER TO R 140 (22-13 DO YOU CALCULATE TRANSFORMERS	C 141 CZ-14 DO 70U MORK WITH AUTOTRANSFORMERS C 142 CZ-15 DO 70U MORK WITH POWER TRANSFORMERS C 143 CZ-16 DO 70U WORK WITH AUDIO TRANSFORMERS C 144 CZ-17 DO 70U WORK WITH AUDIO FREQUENCY TRANSFORMERS C 145 CZ-18 DO 70U WORK WITH BON•T REMEMBER WHAT TYPE OF TRANSFORMERS C 146 CZ-19 DO 70U CHECK TRANSFORMERS FOR OPEN WINDINGS BY MEASURING RESISTANCE C 147 CZ-20 DO 70U CHECK TRANSFORMERS FOR SHORTED WINDINGS BY	C 148 CZ-Z1 DO TOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY MEASURING OUTPUT VOLTAGES C 149 CZ-Z2 DO TOU MEASURE RESISTANCE OF TRANSFORMER WINDINGS TO DETERMINE WHETHER A TRANSFORMER MAS A STEP-UP OR STEP-OWN TURNS RATIO C 150 CZ-Z3 DO TOU MEASURE OUTPUT VOLTAGE OF TRANSFORMERS TO DETERMINE WHETHER A TRANSFORMER MAS A STEP-UP OR STEP- DOWN TURNS RATIO C 151 CZ-Z4 DO TOU PREFER TO BASIC TRANSFORMER SCHEMATIC STMBOLS FOR TRANSFORMERS

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TASK GHOUP SUNHARY PERCENT MEMBERS PERFORMING

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0 Y = 1 S K	C 152 C2-25 DO YOU REFER TO MULTIPLE SECONDARY-WINDINGS SCHEMATIC	YOU	C 154 C2-27 DO YOU REFER TO CENTER TAP SCHEMATIC STHBOLS FOR TAMNSFORMERS	C 155 C2-Z6 DO YOU REFER TO AIR CORE SCHEMATIC SYMBOLS FOR TRANSFORMERS	C 154 C2-29 DO YOU REFER TO IRON CORE SCHEMATIC SYMBOLS FOR TRANSFORMERS	C 157 C2-30 DO FEFER TO COMBINATIONS OF THE ABOVE SCHEMATIC	C 158 C2-31 DO YOU DETERMINE PASE RELATIONSHIPS BETWEEN SECONDARY AND PRIMARY VOLTAGES OF TRANSFORMERS USING	SCHEMATIC SYMBOLS C 159 C2-12 DG YOU DETERNINE OR REFER TO THE TYPE OF CORE IN			C 161 C2-34 DO YOU USE OR REFER TO STEP-UP OR STEP-DOWN MATIOS	C 142 C2-35 DO YOU CALCULATE VOLTAGE RATIOS FOR TRANSFORMERS	USING TURNS RATIOS  1. 16.3 C24-36 DD FOU CALCULATE CURRENT RATIOS FOR TRANSFORMERS	USING TURNS RATIOS		C2-38 00 YOU	CZ-39 DO TOU CLEAN OR LUBRICATE	MOLITARY OF THE STATE OF THE ST	DO YOU REMOVE OR REPLACE	TRANSFORMERS  TO YOUR REMOVE OR REPLACE TRANSFORMER	PARTS SUCH AS WIND!	171 C3-01 DO YOU USE OR REFER TO PERMANENT	C 172 C3-02 DO 100 OSE OF REFER TO TEMPORARY MACHETS	MATERIALS	C 174 C3-04 DO TOU USE ON REFER TO RELUCTANCE OF MAGNETIC	C 175 C3-05 DO TOU USE OF REFER TO PERMEABILITY OF MAGNETIC	MATERIALS	176 C3-06 DO YOU USE OR REFER TO	DO TOO SEE OF REPERTOR AND THE	C 178 C3-08 DO YOU USE OF REFER TO MEBER'S THEORY OF MAGNETISM

### TASK GROUP SUMMART PERCENT MEMBERS PERFORMING

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0Y-TSK			D 18-5 D1-02 DO YOU USE ON REFER TO VECTORS WHEN MORKING WITH MCL CIRCUITS D1-03 DO YOU USE OR REFER TO PYTHAGOREAN THEOREM WHEN WORKING WITH RCL CIRCUITS D 18-04 DO YOU USE OR REFER TO SINE WHEN WORKING WITH RCL	CIRCUITS DI-05 DO YOU USE OR CIRCUITS CIRCUITS	D 191 D1-07 DO YOU USE OR REFER TO WATTS WHEN MORKING WITH RCL CIRCUITS U 192 D1-08 DO TOU USE OR REFER TO TRUE POWER (PT) WHEN WORKING WITH RCL CIRCUITS D 193 D1-09 DO YOU USE OR REFER TO MAXIMUM POWER (PM) WHEN	MORKING WITH RCL CIRCUITS WORKING WITH RCL CIRCUITS WORKING WITH RCL CIRCUITS WORKING WITH RCL CIRCUITS WORKING WITH RCL CIRCUITS WITH RCL CIRCUITS	D 197 DI=13 DO YOU USE OR REFER TO RESONANT CIRCUITS THEN MORKING MITH RCL CIRCUITS D 198 DI=19 DO YOU USE OR REFER TO BANDWIDTH WHEN WORKING WITH D 199 DI=15 DO YOU USE OR REFER TO SELECTIVITY WHEN WORKING WITH D 200 DI=16 DO YOU USE OR REFER TO RESONANT FREQUENCY WHEN	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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07-15K	U 204 DI-20 DO YOU USE OR REFER TO TANK CIRCUITS WHEN WORKING	0	D 204 01-22 DO TOU OR W VOLTAGE, CURRENT, OR IMPEDANCE VECTOR	D 207 DISCRIPTOR CINCULTS D 207 DISCRIPTOR TOTAL IMPEDANCE FOR CAPACITIVE	D 208 01-24 DO YOU CALCULATE PHASE ANGLES BETWEEN IMPEDANCE AND DESIGNATION OF STREET	U 209 DI-25 DO YOU CALCULATE TOTAL IMPEDANCE FOR SERIES ACL	CIRCUITS  2 210 01-24 DO YOU CALCULATE IMPEDANCE ANGLES FOR SERIES RCL  TIPCHITS	D 211 D1-27 DO YOU CALCULATE APPARENT POWER (PA) FOR SERIES RCL CIRCUITS	0 212 01-28 DO YOU CALCULATE TRUE POWER (PT) FOR SERIES MCL	D 213 D1-29 DO TOU CALCULATE POWER FACTORS (PF) FOR SERIES ACL	U 214 DI-30 DO TOU CALCULATE TOTAL CURRENT FOR PARALLEL RCL	D 215 DI-11 DO YOU CALCULATE IMPEDANCE ANGLES FOR PARALLEL RCL CIRCUITS.	D 216 DI-32 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL	0 217 01-33 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL CIRCULTS USING OMM'S LAW	218 DI-34 DO TOU CHECK CAPACITORS USING	0 219 01-35 00 YOU CHECK CAPACITORS USING SUBSTITUTION	DI-37 DO YOU CHECK INDUCTORS USING	THETAS OF PERSON PARTIES	CULATE RESONANT FREQUENCIES	D 224 01-40 DO TOU USE OR REFER TO THE GENERAL RULE THAT IMPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE RESONANT	FREQUENCY FOR SERIES RCL CIRCUITS U 225 SINH 1 DO 170 USE OR REFER TO THE GENERAL RULE THAT LINE U 225 SINH 1 DO 170 USE OR REFER TO THE GENERAL RULE THAT LINE U 225 SINH 1 S RILLHIM WILL SHOW SHOW SHOW SHOW SHOW SHOW SHOW SHOW	CORRENT IS MINIMOR AND IMPEDANCE MAXIMON AT REFERENCE TO PARALLEL RCL CIRCUITS	D 224 DIMES DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF PONER POINTS ARE AT 70,7 PERCENT OF THE PEAK CURRENT VALUE	TO THE GENERAL RULE		ANGLES FOR RCL CIRCUITS

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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X21-70	DI IN YOUR PRESEN	O SERIES OF PARACHET RESONART CIRCUIS -02 DO TOU MORK MITS, USE, OF REFER TO -03 DO TOU MORK MITH, USE, OF REFER TO	232 03-04 DO YOU WORK WITH, USE, OR REFER TO	0	234 DZ-06 DO YOU USE	02-07 DO YOU CIRCUIT CURE	OR LR CIRCUITS USE EQUATIONS D FOR CIRCUIT	SPECIFIC VALUES FOR DO YOU USE EQUATIONS NENT VALUES REQUIRED NENT VOLTAGES TO REAC	TIMES D 238 DZ-10 DO 70U USE ON REFER TO THE GENERAL RULE THAT CURRENT IN LR CIRCUITS REACHES ITS MINIMUM VALUE (OR ZERO) AFTER FIVE (5) TIME CONSTANTS	00 TO	240 03-02 DO YOU	242 03-04 00	243 03-05 00 700	0 8 0	246 03-08 DO	247 D3-09 DO YOU MORK WITH	248 03-10 00 70	250 03-12 00 TOU WORK #1TH	251 D3-13 DON'T REMEMBER WHICH TYPE OF FILTE	253 03-15	D 254 03-16 DG 70U MORK WITH PI-SECTION FILTER COMFIGURATION	255 03-18 DO THE FILTERS YOU WORK WITH USE	CIRCUITS 257 03-19 DO THE FILTERS YOU WORK WITH USE	CIRCUITS	CINCULTS

## TASK GROUP SUNNART PERCENT MEMBERS PERFORMING

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DY-TSK	D 254 D3-21 DON*T REMEMBER WHICH TYPE OF BASIC CIRCUIT D 260 D3-22 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE CAPACITANCE OR INDUCTANCE VALUES REQUIRED FOR SPECIFIC FILTERS	E 261 E1-01 50 YOU WORK WITH COUPLING DEVICES IN YOUR PRESENT JOB E 262 E1-02 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH RC DOMPONENTS ASSOCIATED WITH RC	E 263 E1-03 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH IMPERANCE COMPINE	E 264 E1-04 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH TRANSFORMER COUPLING	E 245 ELIOS DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	E 244 E1-04 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	-	TOU WORK WITH DIR	E 270 EL 10 DO YOU WORK WITH CAPACITIVE-INDUCTIVE COUPLED	E 271 EL-11 DO YOU WORK WITH TRANSFORMER COUPLED CIRCUITS F 272 EL-12 DON'T NEMEMBER WHICH TYPE OF COUPLING CIRCUITS	1	TECHNIQUES OR INSPECT OR EVALUATE SOLDERED CONNECTIONS R 274 E2-02 DO YOU SELECT TYPE OF SOLDER TO USE	E2-03 DO YOU ADD FLUX TO	276 E2-04 DG YOU CLEAN CONNEC	E2-06 DO 100	279 E2-07 DO TOU BEND OR SHAPE	E 280 E2-09 DO YOU FILE OR SHAPE SOLDERING IRON TIPS	282 E2-10 DG YOU TIN SOLDERING	E 283 E2-11 DO TOU CLEAN SOLDERING IRON TIPS	285 E2-13 00 TOU TIN OR PRE-TIN CONDUCTORS	286 E2-14 DO YOU	E 287 E2-15 DO YOU DESOLDER CONNECTIONS BY WICKING E 288 L2-14 DO YOU DESOLDER CONNECTIONS USING VACUUM DESOLDERING	TOOLS E 289 E2-17 DO YOU CUT COMPONENT LEADS TO REMOVE COMPONENTS E 290 E2-18 DO YOU CRUSH COMPONENTS FOR REMOVAL	

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0Y-15K	291 E2-19 DO YOU MAKE MARDWIRE CON	STATE SAME OF THE PRINTER	YOU SOLDER PASSIVE CO	CAPACITORS ON PRINTED CIRCUIT BOARDS	SOURCE FOR SOUND SOURCE STATE COMPANIES CONTRACTOR		3 966	4 .	2 4 4 2	E3-03 DO 100	E 296 E3404 DO YOU INSPECT RELAYS	299 E3-05 DO YOU REMOVE OR REPLACE	300 E3-04 DO YOU REMOVE OR REPLACE PARTS OR	301 E3-07 DO YOU TROUBLESHOOT RELAYS	302 E3-08 DO YOU STRAIGHTEN RELAY	303 E3-09 00 YOU PERFORM TASKS ON	304 E3-10 DO YOU PERFORM TASKS ON RELAY	305 E3-11 DO YOU PERFORM TASKS ON RELAY	306 E3-12 DO YOU PERFORM TASKS ON RELAY	307 E3-13 DO YOU PERFORM TASKS ON	O YOU USE OR REFER TO S	(SPST), NORMALLY OPER (NO) SC	TOU USE OR REFER TO S	(SPST), NORMALLY CLOSED INC)	10 5	STATE SCHERATIC STREOLS TON	HBOLS FOR	YOU USE OR REFER	SYMBOLS FOR RELAYS	E 313 E3-14 DO TOU CHECK ELECTRICAL CONTINUITY OF COILS BY	T SIN TINOT TRESENT LOS. DO YOU PERTORN ANY TASKS DEALING	HITH	315 F1-02 DO YOU	316 FI-DS DO TOU CLEAN MICROPHONES	FI-04 DO YOU OPERATE MICROPHONES	318 FI-05 00 YOU TROUBLESHOOT AS FAR AS CHECKING	TOWN BUT TO NOT INDUBLE	SHAZOTAOXULE ZO OLIVATA SAN TOLIVATA SAN TOL	THE PROPERTY OF THE PROPERTY O	יייי של יייי מייי של יייי של יייי של יייי של יייי של יייי של ייייי של ייייי של ייייי של ייייי של ייייי של ייייי	TACKET CON CO.	TITLE OF YOU PERFORM TASKS ON	FI-11 DO TOU PERFORM TASKS ON	FI-12 DO YOU PERFORM TASKS ON	FI-13 DO YOU PERFORM TASKS ON VELOCITY

#### TASK GROUP SUMMAKY PERCENT MEMBERS PERFURNING

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07-15K	F 327 F2-01 IN YOUR PRESENT JOB. DO YOU PEHFORM ANY TASKS DEALING MITH SPEAKERS		330 F2-04 DO TOU OPERATE SPEAKERS	CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO	PARTS OF SPEAKERS	F 332 F2-06 DO YOU TROUBLESHOOT DOWN TO SPEAKER PARTS F 333 F2-07 DO YOU PENOVE OR REPLACE COMPLETE SPEAKERS	334 F2-08 DO YOU REMOVE OR REPLACE SPEAKER	335 FZ-09 DO YOU PERFORM ANY TASKS ON SPEAKER	336 F2-10 DO YOU PERFORM ANY TASKS ON	FALLS DO YOU PERFORM ANY TARKS ON SPEAKER	339 F2-13 DO YOU PERFORM ANY TASKS ON SPEAKER	TASKS ON	342 F3-01 DO YOU USE USCILLOSCOPES IN YOUR PRESENT	F 343 F3402 DO YOU USE OSCILLOSCOPES TO PERFORM OPERATIONAL CHECKS	DE CALCULATION OF CAL	F 345 F3-04 DG TOU USE USCILLOSCOPES TO TROUBLESHOOT ELECTRONIC	YOU USE OSCILLOSCOPE	348 F3-07 DO YOU USE OSCILLOSCOPES TO OBSERVE	11 F1-08 DO YOU USE OSCILLOSCOPES TO OBSERVE		MENSUREMENTS USING DELLAY THRE HULTIPHIS	352 F3-11 DO YOU USE OSCILLOSCOPES	SIGNALS AFTER FI	YOU WORK WITH SEMICON	807	00 400	61-04 DC YOU CHECK DIODES USIN	358 61-05 DO YOU	0 100 ES 61-06 DO YOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES.	TOGETHER WITH VALUES OF FORWARD AND REVISE COMPUTE FORWARD OR REVERSE LIAS RES	G 360 GI-07 DO TOU COMPUTE FORMARD OR REVERSE BIAS RESISTANCE FON DIODES

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### TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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### TASK GROUP SUMMANY PERCENT MEMBERS PERFORMING

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## TASK GROUP SUMMANY PERCENT MEMBERS PERFORMING

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## TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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X21-70	I 548 11-10 DO YOU MORK WITH HULTIVIBRATORS WHICH CONTAIN RC NETWORKS	RTSTAL	EMEMBER WHICH TYPE OF	SI II-13 DO YOU WORK WITH ASTABLE HU	52 11-14 DO YOU WORK WITH HON	1 554 11-16 DO YOU WORK WITH BISTABLE MOUTINBRATORS	HULTIVIBRATORS	00 00	12-02 DO YOU WORK WITH SERIES	12-03 DO YOU WORK WITH SHUNT DIODE L	12-04 00 YOU WORK WITH L	12-05 DO YOU WORK WITH Z	12-06 DO YOU WORK WITH TRANSISTOR LIMITERS	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	12-00 DO YOU WORK WITH STORE	SET IN-10 DO YOU HORK WITH DON'T XXDM WHICH TIPE OF CLAMPING	CIRCUIT	DUR PRE	1 444 13-02 DO YOU CHECK FIFTRON THRES TO SEE IS THEY ARE GOOD	F TURE TESTERS TO CHECK PLECTRON TURES	13-04 DO YOU USE MULTIMETE	13-05 DO YOU USE SCOPES TO CHECK	13-06 00 YOU USE SUBSTITUT	E OR REFER TO CUTOFF	OF GRAND BO SEN DO BOLES	13-10 DO YOU USE OF REFER TO TRANSIT TIME	13-11 00 YOU USE OR REFER TO	13-12 DO YOU USE OR REFER TO SATURA	13-13 DO TOU USE OF REFER TO DO PLATE RESISTANCE	DESIGNATION COMPUTE ACTUAL VALUES OF	579 13-15 DO YOU USE OR REFER	13-16 00 YOU USE ON REFER TO PLATE	581 13-17 00 YOU USE OR REFER TO GRID V	582 13-18 DO YOU USE OR REFER TO	13-19 00 YOU USE OR REFER TO		TOOLS BOLLES MOLLESCHE TO ME WILL BOLLOS	HE RATIO OF CHANGE IN PLATE VOLTAGE TO A CHANGE IN GRID	017468)	

## TASK GROUP SURMANY PERCENT MEMBERS PERFORMING

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DY-TSK	1 584 13-22 DO YOU CALCULATE ACTUAL VALUES OF TRIODE	1 587 13-73 OF VOUNTE OF REFER TO MULTIGRID (TETRODE, PENTODE,	I 588 13-24 DO YOU USE OR REFERENCE TO ELECTRON TUBE TRANSCONDUCTANCE	1 589 13-25 OF ELECTRON TUBE 1 589 13-25 OF CLECTRON TUBE	1 590 13-26 DO YOU USE OR REFER TO THE ELECTRON TUBE PARAMETER	1 591 13-27 DO YOU CALCULATE ACTUAL VALUES OF AC PLATE	1 592 13-28 OF YEFER TO ELECTRON TUBE INTERELECTRODE	1 593 13-29 DO WAS ON REFER TO CHARACTERISTIC CURVES IN YOUR	00 400	1 595 13-31 to YOU USE CHARACTERISTIC CURVES TO SELECT PLATE	1 596 13-32 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS	1 597 13-33 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS	1 598 13-34 DO TOU USE OF REFER TO ELECTRON TUBE AMPLIFIER GAIN 1 599 13-35 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER		1 601 13-37 DO YOU USE MULTIMETERS TO DETERMINE ELECTION TUBE	1 502 13-38 DO VSE OSCILLOSCOPES TO DETERMINE ELECTRON TUBE	1 603 13-79 DO TOURS CHARACTERISTIC CURVES TO DETERMINE	1 604 13-40 DO YOU CALCULATE ANY ELECTRON TUBE CAPACITANCES SUCH	OH REFER	I 606 I3-42 DO YOU USE OR REFER TO PIL NUMBERING SYSTEMS I 607 I3-43 DO YOU USE OR REFER TO THE TYPE OF MATERIAL OR THE	CPERATING TEMPERATURE OF THE EXITTING SORFACE IN THE EXITTING SORFACE IN THE	1 608 13-44 DO YOU USE OF REFER TO TUBE SUBSTITUTION MATERIAL	DO YOU WORK WI	IN TOUR TRESENT JOB U 610 JI-G2 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTHON TUBE AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER	CIRCUITS

AMPLIFIERS

## TASK GROUP SURARY PERCENT MEMBERS PERFORMING

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07-TSK	U 611 JI-03 DO YOU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS U 612 JI-04 DO TOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS U 613 JI-05 DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED	J 614 LI-06 DO TOU TROUBLESHOOT OR REPAIR CASCADE-CONNECTED	U 615 JI DON'T KNOW WHICH TYPE OF SEPAIR DON'T KNOW WHICH TYPE	J 616 JZ-U1 DO TOU WORK WITH GAS TUBES (HOT CATHODE ON COLD	U 617 J2-02 DO YOU MORK WITH CATHODE-RAY TUBES U 618 J2-03 DO YOU USE OR REFER TO THE CHARACTERISTICS OF BEAM		POWER TUBES ARE USED U 620 J2-65 DO YOU USE OR REFER TO THE CHAMACTERISTICS OF	U 621 J2-06 DE TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH	U 622 UZ-07 DO VOU USE OSCU 1 622 UZ-07 DO VOU USE OSCUER TO THE PRINCIPLES OF OPERATION OF		(CRT) J 624 J2-09 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF ELECTROSTATIC DEFLECTION SYSTEMS OF CATHODE-HAY TUBES	625 JZ-10 DO YOU USE OR REFER TO	626 J2-11 DO YOU USE ON REFER TO AQUADAG C	J2-13 DD YOU USE ON REFER TO	629 JZ-14 DO YOU USE OR REFER TO D	DO YOU USE ON REFER TO PHOSPHORESCE	632 J3-01 DO YOU WORK ON TRANSHIT	633 33-02 00 700	J3-03 DO TOU PERFORM TASKS ON FREQUENCY MIXERS	435 J3-D4 D0 YOU USE OR REFER TO TH	US-05 DO YOU PERFORM TASKS ON REACTANCE	637 J3-06 DO TOU PERFORM TASKS ON MODULATED OSCILLATORS	K 638 KI-OI DO TOU WORK ON AN TRANSMIT OR RECEIVE SYSTEMS IN YOUR PRESENT LOB	639 KI-02 DO	K 640 KI-03 DO TOU CLEAN AN TRANSMIT ON MECEIVE STSTEMS K 641 KI-04 DO TOU ALIGN OR ADLUST AN TRANSMIT ON RECEIVE SYSTEMS	

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N-15K	K 642 KI-US DO YOU TROUBLESHOOT TO AM THANSMIT OR RECEIVE SYSTEMS K 643 KI-U6 DO YOU TROUBLESHOOT TO AM TRANSMIT OR RECEIVE	K 644 KI-07 DO TOU REHOVE OR REPLACE AM TRANSMIT OR RECEIVE	K 545 KI-08 DO YOU REMOVE OR REPLACE AM TRANSMIT OR RECEIVE	646 KI-09 DO YOU PERFORM TASKS ON	KI-ID DO TOU PERFORM TASKS ON	211111111111111111111111111111111111111	650 KI-13 DO YOU PERFORM TASKS ON LOCAL	651 KI-I* DU TOU PENFORM TASKS ON	A 552 KI-15 DO TOU PERFORM TASKS ON DETECTORS	654 KI-17 DO TOU USE OR REFER TO A	THANSMITTERS	K 655 KI-18 DO TOU USE ON MEFER TO FREQUENCY STABILIZATION IN	THANSMITTERS	656 KI-19 DO YOU USE OR	A TABLE OF SELECT OF SELECT OF TABLE OF	659 KI-22 DO TOU USE ON REFER TO	KI-23 DO TOU USE OR REFER TO	641 KI-24 DO YOU USE OR REFER TO	662 KI-25 DO YOU USE OF REFER TO IMAGE FREQUENCIES IN RE	K 663 KI-26 DO TOU USE OF REFER TO SIGNAL TO INAGE MATIOS OF	20 100	THANSHITTER SCHEMATIC DIAGRAMS	R 665 KI-28 DO TOU TRACE SIGNALS OR CURRENT FATHS THROUGH AN	K DOG NZ-01 DO YOU MONK MITH FM TRANSMIT ON MECEIVE SYSTEMS IN	TOUR PRESENT	A 667 X 2-02 DO 400 1-04 TE TELEVISION OF SECTION OF SE	THE REAL AND THE PARTY OF THE P	KZ-05 DO TOU TROUBLESHOOT TO FM TRANSMIT	SYSTEMS	K 671 KZ-U6 DG TOU TROUBLESHOOT TO FM TRANSMIT ON RECEIVE	CUMPONENTS	A 672 K2-07 DO TOU REMOVE ON MEPLACE FOR THANSPILL ON MECELVE	K 673 K2-08 DO YOU REMOVE OR REPLACE FM TRANSHIT OR RECEIVE	A A74 K2-D9 DO YOU PERFORM TASKS ON AUDIO AMPLIFIERS	102 00 01-27 520

TASK GROUP SURMARY PERCENT MEMBERS PERFORMING

												CALLET SYCO ON FOR BUILD	MONDERLING STSTEMS											LOGIC FUNCTIONS									
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DY-15K	K 676 K2-11 DO YOU PERFORM TASKS ON DRIVERS (INTERMEDIATE	477 K	KZ-14 DO YOU PERFORM TASKS ON FRE	680 KZ-15 DO TOU PERFORM TASKS ON IF	581 X2-17 DO	683 K2-18 DO YOU TRACE SIGNALS OR CU	<b>X</b> 3	SCHEMATIC DIAGNAMS OF FM RECEIVERS	K 985 KB-01 DO YOU CONVERT DECIMAL (BASE 10) NUMBERS TO OCTAL BASE 81 NUMBERS	K 686 K3-02 DO YOU CONVENT DECIMAL NUMBERS TO BINARY (BASE 2)	.87 X3-03 DO YOU CONVERT OCTAL NUMBERS	K3-04 DO TOU CONVERT OCTAL NUMBERS TO B	689 K3-05 DO TOU CONVERT	KAN-07 OO YOU ADD BINARY NUMBERS TO SET	692 K3-08 DO YOU SUBPRACT BINARY NUMBERS US		SUBTRACTION METHOD	694 x3-10 DO TOU ADD OCTAL NUMBERS T	L 695 LI-DI IN TOUR PRESENT JOB, DO TOU PERFORM ANY TASKS	L 696 LI-02 DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS	OR GATES L 697 L1-03 DO TOU CONSTRUCT TRUTH TABLES FOR OR LOGIC SYMBOLS	ON GATES		L 699 LI-05 DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OR LOGIC	L 700 LI-06 DO YOU USE OF REFER TO TRUTH TABLES FOR AND LOGIC	SYMBOLS OR GATES	C 701 11-57 DO YOU USE OR REFER TO TRUTH TABLES FOR OR LOGIC	REFER	L 703 L1-69 DO YOU USE OR REFER TO TRUTH TABLES FOR EXCLUSIVE OR	LOGIC SYMBOLS	OR REFER TO LOGIC SYNBOLS FOR	706 LI-12 DO YOU USE OR REFER TO LOGIC	

## TASK GROUP SUMMANY PERCENT MEMBERS PERFURMING

								BOOLEAN EQUATIONS														
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300 F 100 F	EFER	L 708 LZ-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY YASKS RELATING TO BOOLEAN EQUATIONS, LOGIC DIAGRAMS, OR LOGIC CINCULTS	L 709 LZ-UZ DO YOU DRAW LOGIC SYMBOLS FOR DIRECT COUPLED	TO TOU CONSTRUCT TR	L 711 L2-04 DO YOU DRAW LOGIC DIAGRAMS FROM GIVEN BOOLEAN	DU MEASURE INP	PROCESS OF TROUBLESHOOTING DIGITAL CIRCUITS L 714 L2-07 DO YOU ANALYZE LOGIC CIRCUITS BY USING BOOLEAN	~		LOGIC (CML) CIRCUTS  L 717 L2-10 DO YOU USE OR HEFER TO LOGIC DIAGRAMS CONSISTING OF MORE THAN ONE GATE	L 718 LZ-11 DO YOU COMPUTE SUM AND CARRY EXPRESSIONS FOR SERIAL	HALF OR FULL ADDER LOGIC DIAGRAMS L 719 L2-12 DG YOU TRACE DATA FLOW THROUGH PARALLEL FULL ADDER	L 720 L2-13 DO YOU WORK WITH ASTABLE (FREE HUNNING)	L 721 L2-14 DO YOU WORK WITH BISTABLE (FLIP-FLOP) HULTIVIBHATORS L 722 L2-15 DO YOU WORK WITH HONOSTABLE (ONE-5HOT)	MULTIVIBRATORS L 723 L2-14 DO YOU USE OR REFER TO FLIP-FLUP MULTIVIBRATOR	STHBOLS L 724 L2-17 DO YOU USE OR REFER TO SINGLE-SHOT MULTIVIRRATOR	TOU USE OF PEFER TO	726 L2-19 DO YOU USE OF REFER TO 727 L2-20 DO YOU USE OF REFER TO	728 L2-21 DO YOU USE OR REFER TO	STRBOLS L 729 L2-22 DO TOU MEASURE OUTPUT WAVESHAPES OF LOGIC CIRCUITS L 739 L2-23 DO TOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIPFLOP	SCHEMATIC DIAGHAMS	PLOF SCHEMATIC DIMGRAMS L 732 L2-25 DO YOU CONSTRUCT TRUTH TABLES FOR J-K FLIP-FLOP LOGIC SYMBOLS

# PCT MBRS RESPONDING 17ES! BY SELECTED GRPS TASK GROUP SUMMARY PERFORMING

								COUNTERS																TIMING CIRCUITS
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07-75K	733 L3-01 DO YOU WORK WITH DIGITA	734 L3-02 00 100 05E 08 REFER TO	736 L3-04 DO 70U USE OR REFER	OR REFER TO	739 L3-07 DO 70U USE OR REFER TO	740 L3-08 DO YOU USE OR REFER TO	741 L3-09 DO YOU USE OR REFER TO	L3-11 DO TOU TRACE DATA	UP-COUNTERS MAYING COMPLEMENTED FLIP-FLOPS L 744 L3-12 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SERIAL UP- OR DOMM-COUNTERS MAYING COMPLEMENTING FLIP-	L 745 L3-13 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF DECADE COUNTERS	L 746 L3-14 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	L 747 L3-15 DO TOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SERIAL UP-COUNTERS FEEDING A PARALLE STORAGE REGISTER	FLOW THROUGH LOGIC DIA	L 749 LA-17 DO PACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	L 750 L3-18 DO TOU CONTERS L 750 L3-18 DO TOU CONTUE FIRE SIMARY COUNT AFTER SPECIFIC IMPUT PULSTS FOR USE LOUNTERS MANIMA ANDRE SERVITED FIRESTORS	COUNTERS HAVE	L 752 L3-20 DO TOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE	REGISTERS L 753 L3-21 DO TOMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PUT OF A FOR A FOR OTHER TWEET OF COUNTERS	, -		COUNTERS FOR SPECIFIC INFOI PULSES  L3-24 DO TOU DETERMINE THE APPROPRIATION COUNT DETECT CIRCUITS TO INDICATE	X 757 NITEDI DO TOU NORK WITH SAMPONH WAVE GENERATORS X 758 NITEDI DO TOU BORK WITH TRAPEZOIDAL MAYE GENERATORS	H 759 MI-03 DO TOU WORK WITH PULSED OSCILLATORS WITH REGENERATIVE	H 740 MI-04 DO YOU MORK WITH FULSED OSCILLATORS MITHOUT REGEMERATIVE FEEOBACK

TASK GROUP SUMMANT PERCENT MEMBERS PERFORMING

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UT-15K	H 761 MI-05 DO YOU WORK MITH BLOCKING OSCILLATORS	0 350 DO 100 NOIN	764 HI-DB DO TOU USE OR REFER TO SWEEP TIME	N 745 MI-09 DO YOU USE OR REFER TO ELECTRICAL LENGTH OF SAWTOOTH	N 766 HI-10 DO YOU USE ON REFER TO PHYSICAL LENGTH OF SANTOOTH MAYEFORMS	H 767 MI-II DO YOU USE OF PEFER TO LINEAR SLOPE OF SANTOOTH	M 268 MI-12 DO YOU USE OR REFER TO GATE LEMETH OF SAMTOOTH MAYEROMS	H 748 HZ-01 DO FOU USE SIGNAL GENERATORS IN YOUR PRESENT JOB H 770 M2-02 DO YOU PERFORM OPERATIONAL CHECKS WHILE USING SIGNAL		TROUBL	MMILE USING SIGNAL GENERATORS M 773 M2-US DO YOU TROUBLESMOOT TO THE SMALLEST REPLACEABLE	774	42-07 00 YOU USE	AS SQUERE MAYE, TRIANGLE, PULS 776 HZ-08 DO YOU USE RF GENERATORS	U USE	A 229 H3-01 IN YOUR PRESENT JOB. BO YOU PERSON ANY TARKS DESILING	MITH ALTERNATING	780 4	781 H3-03 DO TOU CLEAN	782 H3-04 DO YOU OPERATE	H3-U6 DG TOU REHOVE OR REPLACE	785 H3-07 DG YOU TROUBLESHOOT AS F.	CONFICE OF THE PARTS OF MOTORS	787 13-09 DO YOU PEHFORM ANY TASKS ON FIELD COILS	788 43-10 DG TOU PERFORM ANY TASKS ON	HI-II DO TOU PERFORM ANY TASKS ON	A 140 43-12 00 400 PERFORM ANY TANKS ON BROATEN	792 H3-14 DO YOU PERFORM ANY TASKS ON	793 H3-15 DO YOU PERFORM ANY TASKS ON

																		STATEMENT OF THE STATEM	METER MUNEMENTS											SATURABLE REACTORS AND MAGNETIC	AMPLIFIERS			
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X51-15K	H 194 M3416 DO TOU DETERMINE OR MEASURE THE MACNITUDE OF THE FORCE OF TORDIS CREATED BY A MOTOR		A 796 HJ-18 DO TOU DETERMINE OR HEASURE THE MAGNITUDE		798 H3-20 DO 70U #0RK WITH INDUCTI		401 43-23 DO YOU	M3-24 DO YOU CLEAN OR LUBRICAT	803 M3-25 DO YOU OPERATE GENERATORS	804 M3-24 DO TOU REHOVE OR REPLACE	805 H3-27 DO YOU REHOVE OR REPLACE	CONNECT	H 807 M3-29 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF	GENERATORS	A GOD ALTOL OF THE MARK THE STATE AND THE STATE OF	PERRENT NACHEN	N 810 NI-03 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF	NOVING COILS N BILL NI-04 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF	SPIRAL SPRINGS	812 NI-05 DO YOU READ METER SCALES	Z BIS X = DO TOU EXTEND THE MANGE OF AMMETERS	815 NI-08 DO		N 817 NI-10 DO YOU USE OR REFER TO VOLTMETER SENSITIVITY	A 818 NA-01 DO YOU WORK WITH SATURABLE REACTORS OR MAGNETIC			N 820 N2-03 DO YOU CLEAN MAGNETIC AMPLIFIERS OR SATURABLE	ARACTORS A SZI 72-04 DO YOU ADJUST MAGNETIC AMPLIFIERS OR SATURABLE	REACTORS	N 822 N2-05 DO YOU TROUBLESHOOT MAGNETIC AMPLIFIERS OR SATURABLE	N 823 N2-06 DO YOU RENOVE OR REPLACE HAGNETIC AMPLIFIERS OR	SATURABLE REALTORS N 824 52-07 DO YOU FEBUROVE OR REPLACE MAGNETIC AMPLIFIER OR SATURABLE REALTOR COMPONENTS	STENEDLED COLUMN AND COLUMN

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SPC SF	00	0	0	0	2	0	0	3	0	0	00	<b>,</b> 0		<b>o</b> c		0		0	3 0	,	<b>5</b> 0	0	0	0	3	0	
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X21-70	825 NZ=08 DO YOU USE OR REFER TO HYSTERESIS CURVES OR LOOPS 826 NZ=09 DO YOU INTERPRET SCHEMATIC ORA-1465 TO DEVELOP OUTPUT MAYEFORMS ACKOSS REACTOR WINDINGS OR LOAD RESISTORS OF CINCLE MINISTER STIED OF THE PERSONS	YOU MEASURE OUTPUT ANESTONE OR LOAD RESISTONS OF S	628 HZ-11 DO YOU INTERPRET SCHEMATIC DRA-INGS TO DEVELOP OUTPUT	MAYEFURNS FOR MAGNETIC AMPLITTERS 829 N2-12 DO YOU USE ON REFER TO COERCIVE FORCE IN SATURABLE	MESCHORS MESCHOLD DO YOU USE OR MEFER TO RESIDUAL MAGNETISM IN	831 N2-14 DO YOU USE OR REFER TO FLUX DENSITY IN SATURABLE	832 AZ=15 DO YOU USE OR REFER TO POINT OF SATURATION IN	B33 N2-14 DG YOU USE ON REFER TO SATURABLE REACTOR SCHEHATIC Symbols	834 NS-01 DO YOU WORK WITH MAVESHAPING CIRCUITS IN YOUR PRESENT	2 DO YOU USE OR HEFER TO TRANSI	N3-U3 DO YOU USE OR REFER TO PULSE WIDTH (PW)	837 73-04 DO TOU USE OF REFER TO PULSE RECURRENCE TIME (PXT) 838 73-05 DO TOU USE OF REFER TO PULSE RECURRENCE FREGUESCY	(PAF)	839 23-06 DO YOU USE ON REFER TO DIFFERENTIATING CIRCUITS	M3-08 DO YOU USE ON MEFER TO	AS LONG, MEDIUM, OR SHORT ERMINE MHETHER AN LR OR RC CIRCUIT	OIFFERENTIATING OR INTEGRATING BASED ON THE TIME CONSTANT AND OUTPUT CONFIGURATION	843 43-10 DO YOU MORK WITH SQUARE MAVE GENERATORS	BAT NOTIN DO YOU MORK WITH RECTANGULAR WAVE GENERATORS	PRESENT JOB	844 01-02 00 YOU INSPECT 558 TRANSMIT OR RECEIVE SYSTEMS	01-04 DO YOU ALIGN SSB TRANSMIT OR RECEIVE SY	ESHOUT TO 558	SSU UI-D& DO YOU TROUBLESHOOT TO SSB TRANSMIT UR RECEIVE	051 UI-O7 DO YOU REHOVE OF MEPLACE 558 THANSHIT OR RECEIVE	SYSTEMS SYSTEMS SS 01-08 DO YOU PEMOVE OR REPLACE SSB THANSMIT OR MECEIVE COMPONENTS	

GPSUN4 PAGE 31

TASK GROUP SUMMANY PERCENT MEMBERS PERFORMING

			PULSE MODULATION SYSTEMS
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PERCENT MEMBERS PERFORMING

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0Y-TSK	U 889 02-15 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM		TASKS ON	0 892 02-18 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM	O YOU PERFORM ?	SWITCHES SUCH AS GAS THYRATHONS	PULSE TRANSFORMERS	O 895 02-21 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM		U 897 02-23 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	FREQUENCY CONVERTERS	IF AMPLIFIEMS	O 899 02-25 DO TOU PERFORM TASKS ON PULSE HODULATION SYSTEM	0 900 02-26 00 TOU PEHFURM TASKS ON PULSE HODULATION SYSTEM	VIDEO AMPLIFIERS O 901 02-27 DO TOU PERFORM TASKS ON PULSE MODULATION SYSTEM	POWER VIDEO AMPLIFIERS	O PUZ OZIZBO TOO TENTORM IASKS ON PULSE MODULATION STSTEM		0 +04	905 02-31 DO YOU USE OR REFER TO PULSE WIDTH (PW)	906 02-32 DO TOU USE OR REFER TO	0 907 02-33 00 100 05E OX REFER TO PEAK POWER	02-35 DO YOU CALCULATE PULSE	RECURRENCE PREQUENCY (PRF)	O 910 02-16 UO 100 DEASONE POLSE RECORRENCE ITAL ITALI) OR FOLSE RECURRENCE FREGUENCY (PRF)	DO YOU USE FORMULAS TO CALCULATE AV	0 912 02-38 00 YOU TAKE SIGNALS OF CURRENT PATHS THROUGH PULSE	MODULATION TRANSMITTER SCHEMATIC DIAGRAMS	O 913 02-39 DO YOU TRACE SIGNALS OF CURRENT PATHS THROUGH PULSE	0 +16	O 915 03-02 DO YOU INSPECT ANTENNAS

# TASK GROUP SUMMARY PERCENT NEMBERS PERFORMING

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N21-10	916 03-03 00 700	YOU ELECTRICALLY ALIG	920 03-07 DO YOU TROUBLESHO	0 921 03-08 DO YOU REHOVE OR INSTALL ANTENNAS	923 03-10 00 YOU USE OR REFER TO TECHNICAL DATA CONTAINI		REPRESENTATIONS OF H OR MAGNETIC FIELD LINES	0 925 03-12 DO YOU DETERMINE THE DIRECTION OF THE MAGNETIC LINES IN RELATION TO THE ELECTRIC LINES OF PORCE FOR ANTENNAS	OR REFER TO THE GENERAL RULE THAT RE OF CORRECT LENGTH (HALF-WAVE) A	INDUCTIVE LOADS TO THE GENERATOR  0 927 03-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS  WHICH ARE LONGER THAN A HALF-WAVE ACT AS INDUCTIVE LOADS	IR REFER TO THE GENERAL RULE THAT ANTENNA	TO THE GENERATOR	929 03-16 DO TOU MORK WITH HERTZ ANTENNAS	930 03-17 00 YOU WORK WITH HARCON! ANTENNA	03-19 DO YOU WORK	933 03-20 DO YOU WORK WITH CARDIDID ARRAYS	934 03-21 DO TOU MORK WITH COLLINEAR ARRAY 915 03-22 DO TOU USE OR REFER TO THE TERM	INDUCTION FIELDS WHEN WORKING WITH ANTENNAS	PEASONE ELECTROMAGNETIC INDOCTO	O 937 03-24 DO YOU USE OR REFER TO THE TERM ELECTRONAGNETIC RADIATION FIELDS WHEN WORKING WITH ANTENNAS	0 938 03-25 DO YOU HEASURE ELECTROMAGNETIC RADIATION FIELDS OF ANTENNAS		I Z	OF THE ANTENNAS YOU WORK ON LINEARLY	0 942 O3-22-24 ANT OF THE ANTENNAS YOU WORK ON CIRCULARLY	O 943 03-30 DO YOU MEASURE ON DETERMINE THE POLARITY OF ANTENNAS	2 2 2

TASK GROUP SUMMARY PERCENT NEMBERS PERFORMING

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SPC 076	0	0	0	-	C	<b>&gt;</b> c	o <b>-</b>	0	99			•	7	8		v	10		25	à -	-		0	9	60		•		32	7		~	~	
DY-15K	O 945 03-32 DO THE ANTENNA ARRAYS YOU WORK MITH CONTAIN PARASITIC ELEMENTS	O 946 03-33 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC	D 947 03-34 DO THE ANTENNA ARRAYS YOU MORK WITH CONTAIN PARASITIC	0 948 03-35 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN DON'T		משנים מים בים בים בים בים בים בים בים בים בים ב	0 950 03-34 DO TOU WORK ON BIDINECTIONAL ANTENNAS	952 03-39 DG YOU WORK	P 953 FI-DI IN YOUR PRESENT JOB DO YOU MORK WITH TRANSMISSION	BETHER RECEIVES AND ANTENNAS, TELEPHONE LEADS, AS WELL	AN ALER VOLLAGE TORES LINES, ETC. DO NOT CONSIDER	P 454 P1-02 DO YOU REFER TO OR USE COPPER LOSS ON 128 LOSS IN	F 955 FI-US DO TOU REFER TO OR USE SKIN EFFECTS OF HIGH FREQUENCY	P 956 PI-04 DO YOU REFER TO OR USE RADIATION LOSS IN TRANSMISSION		TOTAL TRANSMISSION INES	P 958 PI-06 DO YOU USE OR MEFER TO LEAKAGE LOSSES IN TRANSMISSION			11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P1-10 00 400 WOKK WITH	LINES	P 463 FI-11 DC YOU WORK WITH RIGID COAXIAL CABLE TRANSMISSION	P 964 PI-12 DO TOU THOUBLESHOOT TRANSMISSION LINES		TARANTENSION LINES TO DETERMINE THE TYPE OF TERMINATION	P 966 PI-14 DO YOU SELECT APPROPRIATE TRANSMISSION LINES	TERMINATIONS TO	P 987 PI=15 DO YOU USE OR REFER TO SCHEMATIC SYMBOLS FOR LINE TERHINATIONS	P 968 PI-16 DO TOU MEASURE STANDING MAVE RATIOS (SR) OF	THANSMISSION LINES	P 960 FILLY DO TOU CALCULATE STANDING MAVE RATIOS (SER) OF THANSHINGION LINES	P 970 PI-18 DO YOU PERFORM THE CALCULATIONS NECESSARY TO	DETERMINE THE IMPEDANCE AND LENGTH OF QUARTER - MAVELENGTH MATCHING TRANSFORMERS TO MATCH TRANSMISSION LINES TO LOADS

### TASK GROUP SUMMANY PERCENT MEMBERS PERFURMING

SPC SPC SPC 076 077 078 079	10 11 9 10	3 4 0 2	17 19 8 17		3 4 0 3	4 0 4	2 0 2 2	2 2 0 2	3 2 4 3	0 1 4 7		11 13 4 13	11 13 4 12	<b>a</b>	0 0 0 0	0	0	0	00		0	0	<b>3</b> C		0	0 0		00	
DY-75K	P 971 PI-19 DO TOU MOKK MITH TRANSHISSION LINES WHICH ARE MATCHED TO LOAD USING MATCHING TO MATCHERS	SK WITH TH	_	E OR REFER TO			P 977 PI-25 DO YOU USE OR REFER TO THE TERM VELOCITY FACTOR (K)	a 0	P 979 P1-27 DO YOU CONSTRUCT TRANSHISSION LINES OF PARTICULAR ELECTRICAL LENGTH FOR GIVEN PREQUENCIES	P 980 PI-28 DO TOU USE OR REFER TO THE GENERAL RULE THAT AS THE	FREGUENCY INCREASES AND THE PHYSICAL LENGTH OF TRANSMISSION LINES REMAIN CONSTANT, THE ELECTRICAL LENGTH INCREASES	P 981 P1-29 DO YOU MORK MITH NONRESONANT (FLAT) TRANSMISSION	PI-30 DO TOU WORK WITH RESONANT TRANSMISSION LINES	P 983 PI-31 DO YOU KORK MITH TRANSMISSION LINES WHICH ARE MATCHED TO LOADS USING STUB MATCHING	DO YOU WORK WIT	TOUR PRESENT JOB TOUR PARSENT JOB	986 PZ-03 DO TOU CLEAN WAVEGUIDES OF	PZ-04 DO TOU BEND MAVEGUIDES OR C	THE PROPERTY OF A CONTRACTOR OF CAMPACIAN OF	490 P2-07 00 TOU PUR	491 PZ-08 DO TOU TROUBLESHOOT WAVEGUT	COMPLETE	300138 1104 00 11-24 166	PZ-12 DO YOU REMOVE OR INSTALL	PZ-13 DO TOU REMOVE OF INSTALL H BENG	1997 PZ-19 DO TOU REMOVE OR INSTALL OTHER	P2-16 DO YOU REHOVE OR 1	PIGGO P2-17 DG YOU REMOVE OR INSTALL DIRECTIONAL COUPLERS	002 P2=19 DO YOU USE ON REFER TO "A" WALL OF WAVEGUIDES

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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DY-TSK	PICO3 P2-2D DO YOU USE OK REFER TO "B" MALL OF WAVEGUIDES PICO4 P2-21 DO YOU USE OR REFER TO CUTOFF FREQUENCY OF WAVEGUIDES PICO5 P2-22 DO YOU USE OR REFER TO FREQUENCY-DETERMINING WALL OF	MAYEGUIDES PLOCE PAGE OF YOU USE OF PEFER TO POWER-DETERNINING MALL OF	PIGGT P2-24 GO YOU USE ON REFER TO ELECTRIC FIELD BOUNDARY	PIGGS P2-25 GO YOU USE OR REFER TO MAGNETIC FIELD BOUNDARY	PIGGS P2-23 DO VSE OR REFER TO DUPLEXER FIELD BOUNDARY	PIDIO P2-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT HOST WAVEGUIDES ARE HADE WITH A "B" MALL SIZE OF "7 MAVELENGTHS	OF THE OPERATING FREQUENCY PIOII P2-28 DO YOU USE ON REFER TO THE GENERAL RULE THAT MOST "A. WALLS RANGE FROM .2 TO .5 WAVELENGTHS IN SIZE, WITH .35	USED AS AN AVERAGE PROIS PRACE TOU CONCERNED WITH THE MATERIAL (SUCH AS BRASS) MAICH MAVEGUIDES ARE MADE OF	HE LE	PIDIA PZ-31 DO YOU USE THE RIGHT HAND RULE TO DETERMINE THE DIRECTION OF PROPAGATION, DIRECTION OF "E" FIELD, OR DIRECTION OF "E" FIELD, OR		PIGIG P2-33 DO YOU WEASURE THE TIME PHASE OF MEM CINES IN	PIGLY PERSONNEL OF OF REFER TO THE SPACE GUADRATURE OF "E" OF	PIDIS P2-35 AF HIGH POWER PROBES USED ON MAYEGUIDES OR CAVITY		PIGEO PERSONALISM STATEMENT OF THE PROPERTY RESONATORS		PIGES P2-39 ARE DON'T REMEMBER THE KIND OF ENERGY COUPLING USED ON MAYIGUIDES OR CAKITY REMOMETRES YOU WORK WITH	EGUIDES OR CAVITY RES	PIOZY PZ-41 DO YOU DETERMINE THE POSITIONING OF LOOPS IN MAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO TECHNICAL DATA

## TASK GROUP SUMMANY PERCELT NEMBERS PERFORNING

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SPC 078	0	a	o	0		<b>)</b> c	0	0	0	0		0	0	0 0		0	0	0 0	9 0	0	0	00	0	0	0 0	0	c	000	0 0	00	,
5PC 077	0	0	D	0	c	<b>o</b> c	0	0	0	0		0	90	<b>9</b> 0		0	0	0 0	0	0	>	90	00	0	0 0	0	c	000	00	00	,
5PC 076	0	0	0	0		<b>)</b> C	0	0	0	a		0	<b>3</b> (	0		2	0	0 0	0 0	0	3	0 0	0	0 0	0 0	0	c	000	00	00	,
D7-15K	PID2S P2-42 DO YOU DETERHINE THE POSITIONING OR SIZE OF APERTURES IN MAYEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO	-	U	WITH HERIND OF	MAVEGUIDES OF CAVITY RESONATORS YOU WORK	PICA PARTO DO TOU TUNE CAVITY RESONATORS USING CAPACITIVE TONING	P2-48 DO YOU TUNE CAVITY	72-49 00 YOU	PIGSS P2-50 DO YOU MEASURE THE FREQUENCY OF SIGNALS IN CAVITY RESONATORS.	UR PRESENT JOB DO YOU WORK WITH KLYSTRONS,	TRAVELING MAYE TOBES (TMT), PARAMETRIC AMPLIFIERS, ON MAGNETRONS	P3-02 DO YOU USE OR REFER TO	Parcia do You USE OR REFER TO	U USE ON REFER	CIRCUITRY	PIDSO FILED DO TOU USE OF REFER TO PRINCIPLE OF ELECTION VELOCITY	P3-07 00 100 USE OR	P3-08 DO TOU WORK	P3-10 00 70U MORK #111H	YOU WORK WITH	AMPLIFIERS	a 0	P3-15 00 100	200	3-18 00 100	P3-19 00	7.7	P3-21 DO TOU REMOVE	P3-23 00 70U	DO YOU CLEAN PLOST	200

# TASK GROUP SUMMARY PERCENT MEMBERS PERFURMING

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751-70	1059 P3-26 DO YOU TUNE PARAMETRIC AMPLIFIERS 1060 P3-27 DO YOU PERFORM OPERATIONAL CHECKS OF PARAMETRIC	AMPLIFIENS D61 P3-28 D6 YOU TROUBLESHEET PARAMETRIC AMPLIFIERS D62 P3-29 D6 YOU REMOVE OR REPLACE COMPLETE PARAMETRIC	1063 P3-30 OVOU REMOVE OR REPLACE PARAMETRIC AMPLIFIER	DO YOU INSPEC	P3-32 00 100	COST TAILED DO TOO BOLON INSCRIPTIONS	P3-35 00 70U	P3-36 DO YOU TROUBLESHOOT MAGNETRONS	070 P3+37 DO TOU REMOVE OF REPLACE COMPLETE MAGNETRON 071 P3+38 DO TOU REMOVE OF REPLACE MAGNETRON COMPONENTS	P3-39 DO YOU USE OR REFER TO TH	UT3 F3-40 DO YOU USE OR REFER TO THE OPENATING PRINCIPLES OF	PIGNA PINAL DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF		USE OR REFER TO	077 P3-44 DO YOU USE OR REFER TO THE OPENATING PRINCIPLES OF	PIDTA P1-45 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	USE OF REFER TO	TOU USE	OR REFER TO THE	PIGEZ PARA O VOLUME SEFER TO THE OPERATING PRINCIPLES OF	OR REFER TO	OR REFER	PICES P1452 DO YOU USE ON MESONANT CAVITIES PICES P1452 DO YOU USE ON MESCHETT COMPINE OFENALING PRINCIPLES OF	OR REFER TO THE OF	

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TASK GROUP SURMARY
PERCENT MEMBERS PERFORMING

DY-15K

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0	0	0	0	0	0	0	0	a	0	0	a	0	0	0	0.3	o c	00	0	0	om	0	0	0	0	0
PIOSE P3+55 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON DUTPUT LEADS	USE OR REFE	100	3 >	USE OR REFER TO THE	SE OR REFER	> > >	PIGGS PI-42 DO YOU USE OF REFER TO THE OPENATING PRINCIPLES OF TRAVELLING-MAINT THAVELLING-MAINT WENDER	100		PICHE PI-45 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER SIGNAL	PIGGS PICES DO TOU PERFORM TASKS ON PARAMETRIC AMPLIFIER IDLEM	PILOG P3-67 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER VARACTOR	DIODES PILOI P3-68 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE	-	BIAS BATTERIES P3-70 DO TOU PERFORM TASKS ON ANOBES	Parti do tou restore Tasks on	PILOS PURINO TO TOU PERFORM TASKS ON COUPLING LOUPS	P3-74 DO YOU PERFORM TASKS ON	P3-75 DO TOU PERFORM TASKS ON	PILOS PISTA DO TOU PERFORM INSKS ON MAGNETS	01-02 00 YOU USE OR BEEFER TO	GI-03 DO YOU USE OR REFER TO LOGIC	PEGISTERS WILLS STORAGE OF REFER TO LOGIC STRBOLS OF STORAGE	RESIDENS RES	STITE RELIGIORENS  GILS GI-06 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF  GILS GI-07 DATE OF REGISTERS

PCT MBHS RESPONDING .YES' BY SELECTED GRPS

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GPSUM4 PAGE 40

TASK GROUP SUMMARY PERCENT MEMBERS PERFURNING

						STORAGE DEVICES									DIGITAL TO ANALOG CONVERTERS												
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SPC 077	-	0	9	0	0	0	0	٥	Э	-		-	0	c	,	0	-	0	0	0		0	0	0	9		
SPC 076	-	0	0	00	0	3	0	0	0	0		-	0	c	,	0	-	0	0	0		0	0	0			
PERCENT REMBERS PERFORNING	GILLO GI-U7 DO YOU DETERNINE THE STATE OF LACH FLIP-FLOP OF A SHIFT REGISTER AFTER A SPECIFIED NUMBER OF SHIFT PULSES HAVE PASSED	YOU WORK WITH DIGITAL	STORAGE DEVICES IN YOUR PRESENT JOB	42-03 DO YOU USE OR REFER TO H	42-04 DO YOU USE OR REFER TO H	62-05 DO YOU USE OR REFER TO MAGNETIC TAPES	WILES 92-06 DO YOU USE OF REFER TO ACCESS TIME OR SPEED OF MEMORY SYSTEMS	41123 42-07 DO YOU USE OF HEFER TO WORD CAPACITY OF MEMORY		GII25 42-09 DO YOU USE ON REFER TO LOGIC SYMBOL OF DELAY LINES	00-10-01617AL	41127 43-02 DO YOU COMPUTE OUTPUT VOLTAGES FOR ELECTROMECHANICAL	GII28 43-03 DO YOU USE OF REFER TO THE GENERAL RULE THAT THE	MANIE ARVIN BOR SERVICE AND TON THE SECRET SECTION	COUNTS IN ELECTRONIC DIGITAL	41130 43-05 DO YOU PERFORM SAMPLE FUNCTION TASKS ON VARIABLE TIME	100		3	TIME AVAION-TO-DIGITAL (A/D) CONNENTER CIRCUITS SILBY ABON DO YOU PERFORM DON'T REMEMBER XXICH FUNCTION TASKS	ON VARIABLE TIME ANALOG-TO-DIGITAL	GITSS GS-TO DO YOU USE OR REFER TO SAMPLE FUNCTION OF A/D	CONVERTERS 41136 43-11 DO YOU USE UN MEFER TO MOLD FUNCTION OF A/D	CONVERTERS  CONVERTERS  LILLY 43-12 30 YOU USE OF REFER TO COMPARE FUNCTION OF A/D	CONVERTERS	CONVERTERS	SILES SELITAL 18/00 TON TENT BOSES ON MECHANICAL BARLOGI-O-

# TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

18T-10	5 P.C	245	5PC 078	SPC 079	
RITHO RIGOT DO YOU WORK WITH PHANTASTRON CIRCUITRY IN YOUR	٥	0	0	0	PHANTASTROMS
RILAI RZ-DI IN YOUR PRESENT JOB DO YOU WORK WITH SCHMITT TRIGGER	0	0	٥	0	
RILY2 READ DO YOU TRACE DATA FLOW THROUGH SCHMITT TRIGGER	0	0	0	0	SCHALT TRIGGERS
SCHEMATIC DIAGRAMS HILMS R2-03 DO YOU USF OR REFER TO SCHWITT TRIGGER LOGIC SYMBOLS	0	0	0	0	
RJ-DI IN YOUR PRESENT JOB OF YOU	9-	9 -	00		
WILMS RAMPS DO YOU FARRICATE COAXIAL CABLES	٦	,	c	•	CABLE FABRICATION
S	S	5	7		
SILET SILED DO TOUR PERSONNE ANY TASKS ON NIXIE LIGHTS OR NIXIE	0	0	0	0	INPUT/OUTPUT DEVICES
SII48 SI -03 DO YANALYZE NIXIE LIGHT DECODER SYSTEMS USING	0	0	0	o	
SIL49 SZ-01 DO YOU WORK WITH PHOTO TUBES IN YOUR PRESENT JOB	0	0	0	0	PHOTO SENSITIVE DEVICES
SI-OI IN YOUR PRESENT JOB DO YOU WORK WITH CHOPPER	0 :	0	0	2 (	
23-02 00 100	0 0	<b>o</b> c	0 0	0 0	
SILES SHOULD TO YOU USE ON REFER TO EXCITATION PREDUENCIES	0	0	0 0	00	
S3-05 DO YOU USE OR REFER TO VOLT	o	0	0	0	SYNCHRONOUS VIBRATIONS
RELATIONSHIPS SIISS SA-06 DO 100 USE SERVOS IN CONJUNCTION WITH CHOPPER	O	0	0	0	(CHOPPER CIRCUIS)
CIRCUIT OPERATION					
	0	0	0	0	
YOU USE	0	0	0	0	
NOI	d	c	c	c	
CHOPPER CIRCUIT OPERATION	•	,	,	,	
TIIS9 TI-01 DOES YOUR PRESENT JOB INVOLVE ANY TASKS DEALING WITH	0	0	0	0	
INFRAREO SYSTEMS  1.160 11-02 DO YOU ENGERT INFRARED SYSTEMS	0	0	C	0	
TI-03 DO TOU CLEAN INFRARED SYSTE	0	0	0	0	I NED & DEFI
TI-04 DO YOU ADJUST OF CALIBRATE	0	0	0	0	יון אמורה
TILES TIMOS DO TOU OPERATE INFRARED SYSTEMS TIMOS DO TOU TROUBLESKOOT WIRE TONNECTIONS OF INFRARED	00	00	00	00	
SYSTEMS					
TIINS TI-UT DO TOU TROUBLESHOOT MAJOR ASSEMBLIES OF INFRARED	0	0	0	0	
TILEG TI-UB DO YOU TROUBLESHOOT DOWN TO INFRAMED SYSTEM	0	٥	0	0	
TITES TI-09 DO TOU PEHOVE OR REPLACE MAJOR ASSEMBLIES OF	0	0	0	0	
	c	c	c	c	
COMPONENT PARTS	,	,	,	,	

### TASK GROUP SUNMARY PERCENT MEMBERS PERFORMING

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07-TSK	TIZIO TZ-ZS DO YOU WORK WITH HALF SILVERED (92% REFLECTIVE)	11211 72-24 DO YOU WORK WITH HELICAL FLASHTUBES	12-28 DO YOU WORK WITH	12-30 DO YOU MORK WITH KENON	12-31 DO YOU WORK WITH	72-32 DO YOU WORK WITH ARGON	12-33 DO YOU WORK WITH	TIZIO TZ-34 DO TOU ROPE MITH GALLION ARSENIDE	SUCH AS DIRECT VIEW STORAGE (DVS	STORAGE TUBES (HMST)	00	T3-03 DO TOU CLEAN DVST OR MMST	13-04 DO YOU ADJUST OR CALIBRATE DVST OR MMST	YOU OPERATE SYSTEMS THAT	13-04 00 10-ET	T1226 T3-07 DO TOU REMOVE OF REPLACE DVST OF MMST TURES FROM	MAJOR ASSEMBLIES OR UNITS	TIREY THEOR DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO NAME	11228 T3-09 DO YOU PENFORM TASKS THAT MAKE IT NECESSARY TO NAME.	THE VARIOUS ELEMENTS OF MMST	T3-10 DO TOU PERFORM TASKS ON FLOOD	TINGS THE TOO TOU PREPARE TASKS ON SELLE GONS	אליי של היים ביים ביים ביים ביים ביים ביים ביים	T3-14 DO TOU PERFORM TASKS ON STO	UI-OI IN YOUR PRESENT JOB. DO YOU	TASKS	U1-03 00 YOU USE ON BEEFE TO	UI-04 00 YOU USE OR REFER TO	UI-05 DO YOU USE OR REFER	UI-06 DO YOU USE OR REFER TO	U1-07 00 100 USE OR REFER TO	241 UI-08 DO YOU USE ON REFER TO TIME-	U1242 U1-09 DO TOU USE OF REFER TO DATA MORDS	244 UI-11 DO YOU USE OR REFER TO	245 U1-12 DO YOU USE OR REFER TO	246 UI-13 DO TOU USE OR REFER TO INFORMAT	CITATO CITITO CO TOTO PRESCRI TANKS ON SINGER PROCESSESTING	300 00000000000000000000000000000000000

PLT MBRS RESPONDING .YES' BY SELECTED GAPS

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TASK GROUP SUBMARY PERCENT MEMBERS PERFORMING

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AND POWER RATIOS



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AIR FORCE OCCUPATIONAL MEASUREMENT CENTER LACKLAND A--ETC F/G 5/9 TELEPHONE EQUIPMENT INSTALLER SPECIALIST, AFSC 36254.(U) SEP 77 T J O'CONNOR, F B BOWER

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#### SUPPLEMENTARY

# INFORMATION

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19. KEY WORDS (Continue on reverse side if pecessary and identify by block number)

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Electronics

Basic electronics

Avionics

Air Force training
Teaching methods

Electronic equipment

Training

Electronic technicians

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned as Telephone Equipment Installer Specialist (AFSC 36254). The report gives a detailed listing of the technical tasks and knowledge needed to perform the jobs within the specialty or career ladder .-

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SECURITY CLASSIFICATION OF THIS PAGE(When Date Entered)

This specialty has the following functions:

Installs and maintains telephone subsets, key telephone systems, key switch systems, and associated equipment. Maintains inspection and maintenance records and completes maintenance data collection forms. Supervises telephone installation and repair specialist personnel.

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